DOCUMENT RESUME

ED 456 392 CG 031 189

TITLE Tobacco Use among U.S. Racial/Ethnic Minority

Groups--African Americans, American Indians and Alaska Natives, Asian Americans and Pacific Islanders, and Hispanics: A Report of the Surgeon General. Executive

Summary.

INSTITUTION Center for Chronic Disease Prevention and Health Promotion

(DHHS/CDC), Atlanta, GA.

PUB DATE 1998-00-00

NOTE 31p.; Prepared by the U.S. Department of Health and Human

Services under the general direction of DHHS' Centers for Disease Control, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health. Edited by Gerardo Marin, Gayle Lloyd, Valerie R.

Johnson, and Anne M. Pritchett.

AVAILABLE FROM U.S. Government Printing Office, Superintendent of

Documents, Mail Stop: SSOP, Washington, DC 20402-9328

(processing code 7813, \$20). Tel: 202-512-1800.

PUB TYPE Reports - Descriptive (141)

EDRS PRICE MF01/PC02 Plus Postage.

DESCRIPTORS Alaska Natives; American Indians; Asian Americans; Blacks;

Government Publications; *Minority Groups; Mortality Rate;

Prevention; *Smoking; *Tobacco

IDENTIFIERS African Americans; Pacific Islands

ABSTRACT

Smoking is the leading cause of preventable death in the United States and certain racial and ethnic minority groups are at higher risk for using tobacco. This is the first Surgeon General's report to focus on tobacco use among these four racial and ethnic minority groups. It provides a single, comprehensive source of data on each group's pattern of tobacco use and presents information on national and regional efforts to curtail consumption of tobacco products. Preventing health problems related to tobacco use among these individuals will be integral to achieving the Healthy People 2000 objectives. Following the introduction in Chapter 1, Chapter 2 illustrates how patterns of tobacco use differ among the groups. Chapter 3 compares the groups in terms of the incidence and prevalence of death rates for diseases commonly associated with tobacco use. Chapter 4 analyzes the smoking-related health status of these groups to determine if there is a differential risk for tobacco addiction. Chapter 5 discusses tobacco control and education efforts among members of the four ethnic minority groups. (Contains 43 references.) (JDM)



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Tobacco Use Among U.S. Racial/Ethnic Minority Groups

African Americans American Indians and Alaska Natives Asian Americans and Pacific Islanders Hispanics

A Report of the Surgeon General

Executive Summary

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention National Center for Chronic Disease Prevention and Health Promotion Office on Smoking and Health

Suggested Citation

U.S. Department of Health and Human Services. Tobacco Use Among U.S. Racial/Ethnic Minority Groups—African Americans, American Indians and Alaska Natives, Asian Americans and Pacific Islanders, and Hispanics: A Report of the Surgeon General. Atlanta, Georgia: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 1998.

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THE SECRETARY OF HEALTH AND HUMAN SERVICES WASHINGTON, D.C. 20201

The Honorable Newt Gingrich Speaker of the House of Representatives Washington, D.C. 20515

Dear Mr. Speaker:

I am pleased to transmit to the Congress the Surgeon General's report on the health consequences of smoking, entitled Tobacco Use Among U.S. Racial/Ethnic Minority Groups. This report is mandated by Section 8(a) of the Public Health Cigarette Smoking Act of 1969 (Public Law 91-222) and includes the health effects of smokeless tobacco products, as mandated by Section 8(a) of the Comprehensive Smokeless Tobacco Health Education Act of 1986 (Public Law 99-252). The report was prepared by the Centers for Disease Control and Prevention.

This is the first Surgeon General's report to focus on tobacco use among four U.S. racial/ethnic minority groups: African Americans, American Indians and Alaska Natives, Asian Americans and Pacific Islanders, and Hispanics. It provides a single, comprehensive source of data on each racial/ethnic group's patterns of tobacco use, physical effects related to tobacco smoking and chewing, societal and psychosocial factors associated with tobacco use, and a selection of specific tobacco control programs. Armed with accurate data, health professionals can plan appropriate programs to address more effectively the health needs of these groups.

Smoking is the leading cause of preventable death in the United States. Certain racial/ethnic minority populations remain at high risk for using tobacco and often bear a disproportionate share of the human and economic cost of tobacco use. instance, African Americans suffer the highest death rates from several diseases caused by smoking. Although some recent declines in lung cancer trends are encouraging, we have reason for great concern about recently reported increases in rates of smoking among African-American and Hispanic high school students.

According to estimates from the U.S. Bureau of the Census, over the next 50 years, the size of these four racial/ethnic minority groups_is_expected_to increase_dramatically, becoming_almost_half_ of the U.S. population by the year 2050. This projection clearly indicates the need to develop effective strategies to prevent tobacco-related disease and death in these four minority population groups.

Sincerely,

Shalala

Enclosure





THE SECRETARY OF HEALTH AND HUMAN SERVICES WASHINGTON, D.C. 20201

The Honorable Albert Gore, Jr. President of the Senate Washington, D.C. 20510

Dear Mr. President:

I am pleased to transmit to the Congress the Surgeon General's report on the health consequences of smoking, entitled Tobacco Use Among U.S. Racial/Ethnic Minority Groups. This report is mandated by Section 8(a) of the Public Health Cigarette Smoking Act of 1969 (Public Law 91-222) and includes the health effects of smokeless tobacco products, as mandated by Section 8(a) of the Comprehensive Smokeless Tobacco Health Education Act of 1986 (Public Law 99-252). The report was prepared by the Centers for Disease Control and Prevention.

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Smoking is the leading cause of preventable death in the United States. Certain racial/ethnic minority populations remain at high risk for using tobacco and often bear a disproportionate share of the human and economic cost of tobacco use. For instance, African Americans suffer the highest death rates from several diseases caused by smoking. Although some recent declines in lung cancer trends are encouraging, we have reason for great concern about recently reported increases in rates of smoking among African-American and Hispanic high school students.

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Sincerely,

Donna E. Shalala

Enclosure



Foreword

The United States of America is a rich blend of cultures. This diversity demands close attention from the agencies and individuals responsible for protecting the public's health. For too long in tobacco control, attention to diversity has been less consistent than is necessary for planning and developing effective health programs. As a result, we sometimes lack sufficient information on which to base tobacco control interventions. With this report, we begin to address such problems and point the way to filling these gaps in knowledge.

Tobacco use causes devastating disease and premature death in every population in the United States. For four major U.S. racial/ethnic minority groups—African Americans, American Indians and Alaska Natives, Asian Americans and Pacific Islanders, and Hispanics—patterns of tobacco use, adverse health effects, and the effectiveness of interventions need to be understood in terms of tobacco's cultural and socioeconomic effects on the members of these groups. This report describes the complex factors that play a part in the growing epidemic of diseases caused by tobacco use in these four groups.

Since 1964 when the first Surgeon General's report on smoking and health was released, this report is the first to focus exclusively on tobacco use among members of these four racial/ethnic groups. Together these groups constitute about 25 percent of the U.S. population, and that proportion is growing rapidly. Public health programs must effectively address the health needs of this significant proportion of people. Such action is of paramount importance to reducing tobacco use in the United States and meeting national health objectives for the year 2000. We hope that this report will provide the basis for renewing our commitment to develop more effective tobacco control programs and policies for people of every racial and ethnic background. In addition, the report can be used by parents and communities as a tool to develop their own solutions. With continued diligence, we shall strive to reach and exceed whenever possible our stated health goals by the year 2000 and reduce the enormous health burden caused by tobacco products.

Claire V. Broome, M.D.
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and
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Preface

from the Surgeon General,
U.S. Department of Health and Human Services

Effective strategies are needed to reduce tobacco use among members of U.S. racial/ethnic groups and thus diminish their burden of tobacco-related diseases and deaths. Cigarette smoking is the leading cause of preventable disease and death in the United States. There is enormous potential to reduce heart disease, cancer, stroke, and respiratory disease among members of racial and ethnic groups, who make up the most rapidly growing segment of the U.S. population.

This Surgeon General's report is the first to address the diverse tobacco control needs of the four major U.S. racial/ethnic minority groups—African Americans, American Indians and Alaska Natives, Asian Americans and Pacific Islanders, and Hispanics. This report is also the only single, comprehensive source of data on each group's patterns of tobacco use, physical effects related to tobacco smoking and chewing, and societal and psychosocial factors associated with tobacco use.

The findings detailed in this report indicate that if tobacco use is not reduced among members of these four racial/ethnic groups, they will experience increasing morbidity and mortality from tobacco use. The toll is currently highest for African American adults. Findings also suggest that some close, long-term relationships between tobacco companies and various racial/ethnic communities could hamper U.S. efforts to lower rates of tobacco use by the year 2000. Also notable is the support that members of racial/ethnic groups have shown for legislative efforts to control tobacco use, sales, advertising, and promotion.

As this report goes to press, discouraging news comes from a report published by the Centers for Disease Control and Prevention on the Youth Risk Behavior Survey about tobacco use among African American and Hispanic high school students. Past-month smoking increased among African American students by 80 percent and among Hispanic students by 34 percent from 1991 through 1997. The consistent decline once seen among young African Americans has sharply reversed in recent years. Past-month smoking prevalence increased from 13 percent to 23 percent among African Americans and from 25 percent to 34 percent among Hispanics.

Although cancer remains common in Americans of all racial and ethnic groups, the pattern of increasing lung cancer deaths in the 1970s and 1980s among African American, Hispanic, and some American Indian and Alaska Native subgroups has been halted or reversed for some groups from 1990 through 1995. Some encouraging news from Cancer Incidence and Mortality, 1973–1995: A Report Card for the U.S. was just published by the American Cancer Society, the National Cancer Institute, and the Centers for Disease Control and Prevention. The report described lung cancer trend data from 1990 through 1995 for African Americans, Asian Americans and Pacific Islanders, and Hispanics. Lung cancer death rates declined significantly for African American men and for Hispanic men and women from



1990 through 1995; death rates did not change significantly for African American women or for Asian American and Pacific Islander men or women. Although lung cancer trends may continue to decline among some racial/ethnic groups for several more years, recent increases in smoking prevalence among adolescent African Americans and Hispanics and among Asian American and Pacific Islander adolescent males, coupled with the lack of decline among American Indian and Alaska Native adults, do not bode well for long-term trends in lung cancer.

One purpose of this report is to guide researchers in their future efforts to garner more information needed to develop effective prevention and control programs. Several significant research questions need to be addressed. For example, why are African American youths smoking cigarettes in lower proportions than youths in other racial/ethnic groups? How does acculturation affect patterns of tobacco use among immigrants to the United States? What are the differential effects of gender on tobacco use among members of certain racial/ethnic groups? What racial- and ethnic-specific protective factors and risk factors will promote the development of culturally appropriate interventions to prevent and control tobacco use? And to what extent are culturally specific tobacco control programs necessary to curb tobacco use among racial/ethnic populations? While researchers are redirecting their focus, federal, state, and private tobacco control partners need to address program issues, such as how to develop and evaluate culturally appropriate prevention and cessation interventions.

This report includes examples of numerous racial- and ethnic-specific tobacco control programs used in communities across the country. These and other racial/ethnic group-specific programs must be disseminated to all areas of the country, where program planners can develop their own strategies, taking into consideration the cultural attitudes, norms, expectations, and values of the targeted cultural groups.

In each of these endeavors, we will succeed only if we are sensitive to our cultural differences and similarities. I challenge federal and state agencies as well as researchers and practitioners in the social, behavioral, public health, clinical, and biomedical sciences to join me in the pursuit of effective strategies to prevent and control tobacco use among racial/ethnic groups. By meeting this challenge, we will progress toward achieving the nation's year 2000 tobacco-related health objectives and will help to prevent the unnecessary disability, disease, and deaths that result from tobacco use.

David Satcher, M.D., Ph.D. Surgeon General and Assistant Secretary for Health



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Introduction

This Surgeon General's report on tobacco use summarizes current information on risk factors and patterns related to tobacco use among members of four major racial and ethnic minority groups in the United States: African Americans, American Indians and Alaska Natives, Asian Americans and Pacific Islanders, and Hispanics. In addition, this report presents information on national and regional efforts to curtail consumption of tobacco products among members of these four groups. Previous Surgeon General's reports on smoking and health have briefly summarized findings related to one or more of the racial/ethnic groups covered in this report, but this is the first Surgeon General's report to concentrate specifically on the four major racial/ethnic groups in the United States.

Several factors prompted the development of this report. First, the information in this report has never before been compiled in one source. Consequently, policymakers, community leaders, researchers, and public health workers have had difficulty determining the extent of the problem, identifying gaps in information regarding tobacco use among members of the four groups, or being aware of existing tobacco control programs that have demonstrated effectiveness. Thus, incorporating such information into the design and implementation of culturally appropriate services has been difficult.

Second, the four racial/ethnic groups currently constitute about one-fourth of the population of this country, and the Bureau of the Census projects that by 2050 the non-Hispanic white population in the United States will total only 53 percent (Day 1996). Preventing health problems related to tobacco use among the individuals in racial and ethnic groups will be integral to achieving U.S. public health objectives, such as those proposed in *Healthy People 2000: National Health Promotion and Disease Prevention Objectives* (U.S. Department of Health and Human Services [USDHHS] 1991, 1995; National Center for Health Statistics [NCHS] 1994).

This report contributes essential knowledge that must be incorporated into efforts to accomplish the *Healthy People 2000* objectives, particularly these six goals:

 Objective 3.1. Reduce coronary heart disease deaths to no more than 100 per 100,000 people. (Ageadjusted baseline: 135 deaths per 100,000 people

- in 1987.) Among African Americans, reduce the number from 168 to 115 deaths per 100,000 people between 1987 and the year 2000 (Objective 3.1a).
- Objective 3.2. Slow the rise in lung cancer deaths to achieve a rate of no more than 42 per 100,000 people. (Age-adjusted baseline: 38.5 deaths per 100,000 people in 1987.) Among African American males, slow the rise from 86.1 to 91 deaths per 100,000 people between 1990 and the year 2000 (Objective 3.2b).
- Objective 3.4. Reduce the prevalence of cigarette smoking to no more than 15 percent among people aged 18 years and older. (Baseline: 29 percent in 1987 [31 percent for men and 27 percent for women].) Particular year 2000 objectives include lowering the prevalence of smoking to 18 percent among African Americans (Objective 3.4d), 15 percent among Hispanics (Objective 3.4e), and 20 percent among American Indians and Alaska Natives (Objective 3.4f) and Southeast Asian men (Objective 3.4g).
- Objective 3.5. Reduce the initiation of cigarette smoking by children and youths so that no more than 15 percent have become regular cigarette smokers by the age of 20 years. (Baseline: 30 percent of youths had become regular cigarette smokers by the ages of 20–24 years in 1987.)
- Objective 3.9. Reduce the prevalence of smokeless tobacco use among males aged 12–24 years to no more than 4 percent. (Baseline: 6.6 percent among males aged 12–17 years in 1988; 8.9 percent among males aged 18–24 years in 1987.) A specific objective is to lower the prevalence of smokeless tobacco use among American Indian and Alaska Native young adults to 10 percent by the year 2000 (Objective 3.9a).
- Objective 3.18. Reduce stroke deaths to no more than 20 per 100,000 people. (Age-adjusted baseline: 30.4 deaths per 100,000 people in 1987.) Among African Americans, reduce the number from 52.5 to 27.0 deaths per 100,000 people between 1987 and the year 2000 (Objective 3.18a).



This report of the Surgeon General also responds to the need to thoroughly analyze the smoking-related health status of racial/ethnic groups and to determine if there is a differential risk for tobacco addiction (Chen 1993). High risk might derive from personal characteristics but also from social factors, such as migratory patterns, acculturation, and the tobacco industry's historical involvement in the racial/ethnic communities and targeted advertising and promotion of tobacco products (see Chapter 4).

In addition, this report is needed to document how patterns of health, disease, and illness among people in the various racial/ethnic minority groups differ from patterns in the rest of the U.S. population. These differences reflect the groups' exposure to tobacco products, as well as the heterogeneity of the groups' lifestyles, cultural beliefs and practices, genetic backgrounds, and environmental exposures. This report illustrates how patterns of tobacco use differ among and within the four racial/ethnic groups (Chapter 2). It compares the groups in terms of the incidence and the prevalence of death rates for diseases commonly associated with tobacco use and presents data from case-control and cohort studies whenever possible (Chapter 3).

The health status of members of racial and ethnic groups in this country has also been the focus of previous federal reports, such as the Health Status of Minorities and Low-Income Groups (Health Resources and Services Administration [HRSA] 1985), the Report of the Secretary's Task Force on Black and Minority Health (USDHHS 1985), and Chronic Disease in Minority Populations (Centers for Disease Control and Prevention [CDC] 1994). This Surgeon General's report supports initiatives such as the Hispanic Health and Nutrition Examination Survey in the early 1980s; the Surgeon General's National Hispanic/Latino Health Initiative (Novello and Soto-Torres 1993); special funding initiatives from federal agencies such as the CDC, the National Cancer Institute, the National Institute on Alcohol Abuse and Alcoholism, the National Institute on Drug Abuse, the National Heart, Lung, and Blood Institute (1994), and the National Institute of Mental Health (National Institutes of Health 1993); the Department of Health and Human Services's 1996 Hispanic Agenda for Action: Improving Services to Hispanic Americans, and the 1998 President's Race Initiative, which includes special funding initiatives for the CDC, the Indian Health Service, and the Health Resources and Services Administration.

Major Conclusions

- Cigarette smoking is a major cause of disease and death in each of the four population groups studied in this report. African Americans currently bear the greatest health burden. Differences in the magnitude of disease risk are directly related to differences in patterns of smoking.
- 2. Tobacco use varies within and among racial/ ethnic minority groups; among adults, American Indians and Alaska Natives have the highest prevalence of tobacco use, and African American and Southeast Asian men also have a high prevalence of smoking. Asian American and Hispanic women have the lowest prevalence.
- Among adolescents, cigarette smoking prevalence increased in the 1990s among African Americans and Hispanics after several years of substantial decline among adolescents of all four racial/ethnic minority groups. This increase is particularly striking among African American youths, who had the greatest decline of the four groups during the 1970s and 1980s.
- 4. No single factor determines patterns of tobacco use among racial/ethnic minority groups; these patterns are the result of complex interactions of multiple factors, such as socioeconomic status, cultural characteristics, acculturation, stress, biological elements, targeted advertising, price of tobacco products, and varying capacities of communities to mount effective tobacco control initiatives.
- 5. Rigorous surveillance and prevention research are needed on the changing cultural, psychosocial, and environmental factors that influence tobacco use to improve our understanding of racial/ethnic smoking patterns and identify strategic tobacco control opportunities. The capacity of tobacco control efforts to keep pace with patterns of tobacco use and cessation depends on timely recognition of emerging prevalence and cessation patterns and the resulting development of appropriate community-based programs to address the factors involved.

Preparation of This Report

This report of the Surgeon General was prepared by the Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services, as part of the Department's mandate, under Public Laws 91–222 and 99–252, to report to the U.S. Congress current information about the health effects of tobacco use.

The report was produced with the assistance of experts in the behavioral, epidemiological, medical, and public health fields. Initial background papers were produced by more than 25 scientists who were selected because of their expertise and familiarity with the topics covered in this report. Their various contributions were summarized into five major chapters that were reviewed by 28 peer reviewers. The entire manuscript was then sent to 43 scientists and experts, who reviewed it for its scientific integrity. Subsequently, the report was reviewed by various institutes and agencies within the Department of Health and Human Services.

Terms Related to Race and Ethnicity

Race and ethnicity are classifications currently used for various purposes, such as tracking morbidity and mortality statistics, defining group characteristics (as is done in many studies and by most federal and state agencies, including the U.S. Bureau of the Census), and exploring the health characteristics of individuals and groups. Most extant data consider four racial groups in the United States (African American or black, American Indian and Alaska Native, Asian American and Pacific Islander, and white) as well as two ethnic categories (Hispanic and non-Hispanic).

Specific choices have been made in selecting the labels used to identify individuals who share a given race, tradition, culture, or ethnicity. These labels differ somewhat from those published in the Race and Ethnic Standards for Federal Statistics and Administrative Reporting, more commonly known as Directive 15 (U.S. Department of Commerce 1978). This directive presents rules for classifying persons into four racial groups (American Indian or Alaskan Native, Asian or Pacific Islander, black, and white) and two ethnic categories (Hispanic origin and not of Hispanic origin). The labels in this report were chosen to reflect current preferred use by many members of each group and researchers as well as to more clearly identify

members of a given group. Nevertheless, because of differences in the way in which ethnicity has been ascertained in the various studies, some overlap and misclassification may exist, particularly with regard to Hispanic origin (for example, Hispanics of African background may be classified as African Americans, or Hispanics may be classified as non-Hispanic whites). In addition, the terms used in this report do not always precisely depict the racial/ethnic group studied (for instance, this report consistently uses the term American Indian and Alaska Native, even when describing studies of Native Americans—a category that in some cases excludes Alaska Natives). Moreover, the terms used here do not reflect the fact that some studies were conducted in the 48 contiguous states and may exclude a substantial number of Alaska Natives and Native Hawaiians. Throughout this report, the following labels and definitions are used, with the referents basically agreeing with those of Directive 15:

- African American. Individuals who trace their ancestry of origin to Sub-Saharan Africa.
- American Indian and Alaska Native. Persons who
 have origins in any of the original peoples of North
 America and who maintain that cultural identification through self-identification, tribal affiliation,
 or community recognition.
- Asian American and Pacific Islander. Individuals who trace their background to the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands.
- Hispanic. Persons who trace their background to one of the Spanish-speaking countries in the Americas or to other Spanish cultures or origins.
- White. Persons who have origins in any of the original peoples of Europe, North Africa, or the Middle East. Throughout most of this report, white refers to non-Hispanic whites.

Finally, this report avoids using such labels as people of color, special populations, multicultural populations, or diverse populations because some people consider them inaccurate, improper, or pejorative. Without question, not everyone will agree with the terms used in this report because no universally accepted labels exist. These terms will continue to evolve with time.



Terms Related to Tobacco Use

Throughout this report, prevalence of smoking cessation is used to describe the proportion of persons who had ever smoked and who were former smokers at the time of survey (this term is used instead of quit ratio or quit rate). Definitions related to smoking status—ever smokers, never smokers, current smokers, and former smokers—are presented later in this report (see Chapter 2).

Demographic Characteristics of the Four Racial/Ethnic Minority Groups

In the 1990 U.S. Census, the four racial and ethnic groups that are the focus of this report accounted for 24 percent of the population, or more than 60 million people (Table 1). African Americans were the largest group, followed by Hispanics, Asian Americans and Pacific Islanders, and American Indians and Alaska Natives. Although these groups constitute a minority of the total population, their overall growth of 32 percent between 1980 and 1990 far exceeds the 4-percent increase among whites (Table 1). Asian Americans and Pacific Islanders had the largest growth during that period, followed by Hispanics, American Indians and Alaska Natives, and African Americans. Because of this rapid growth, racial and ethnic populations tend to be younger than the white majority.

Demographic characteristics vary significantly when the four racial and ethnic groups are compared with whites, according to 1990 census data (Table 2; within-group variability is masked because all subgroups that make up a given racial or ethnic group are considered together) (U.S. Bureau of the Census 1993c). The median ages of Hispanics (25.6 years), as well as American Indians and Alaska Natives (26.9 years), are lower than those of the other racial/ethnic group members. Hispanics have the lowest proportion of high school graduates (49.8 percent) of all groups and the highest proportion of people who speak a language other than English (77.8 percent). Asian Americans and Pacific Islanders (38.4 percent) as well as Hispanics (39.4 percent) have the largest proportions of individuals who feel they do not speak English "very well." They also have the highest proportions of foreign-born persons. American Indians and Alaska Natives, African Americans, and Hispanics have significantly higher levels of unemployment and poverty as well as substantially lower household incomes than Asian Americans, Pacific Islanders, or whites. In all four groups, a majority of members live in urban environments; however, American Indians and Alaska Natives have the lowest proportion of urban residents.

Differences in the demographic characteristics of each of the various racial and ethnic groups are related to variations in national background and immigration history. Asian Americans and Pacific Islanders, for example, include approximately 32 different ethnic and

Table 1. U.S. population distribution, by race/ethnicity and Hispanic origin and percentage change, 1980–1990

	1980 (in millions)	1990 (in millions)	% Change
White*	180.26	188.42	4
African American*	26.10	29.28	12
Hispanic	14.61	21.90 [†]	50
Asian American and Pacific Islander	3.50	7.23	107
American Indian and Alaska Native‡	1.42	2.02	42

^{*}Excludes persons of Hispanic origin.



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[†]Excludes 3.5 million Hispanics in Puerto Rico.

[‡]Includes Eskimos and Aleuts.

Source: U.S. Bureau of the Census 1983, 1993c.

Table 2. Selected demographic characteristics for the U.S. population, by race/ethnicity, 1990

Characteristic	African Americans	American Indians/ Alaska Natives	Asian Americans/ Pacific Islanders	Hispanics	Whites*
Population	29,930,524	2,015,143	7,226,986	21,900,089	188,424,773
Women (percentage)	52.8	50.4	51.2	49.2	51.3
Median age (years)	28.2	26.9	30.1	25.6	34.9
Foreign born (percentage)	4.9	2.3	63.1	35.8	3.3
Education (percentage of persons aged 25 years) High school education Bachelor's degree or higher	63.1 11.4	65.5 9.3	77.5 36.6	49.8 9.2	79.1 22.1
English-language ability (percentage of persons aged 5 years) Speak a language other than English Do not speak English "very well"	6.3 2.4	23.8 9.2	73.3 38.4	77.8 39.4	5. <i>7</i> 1.8
Number of persons per family	3.5	3.6	3.7	3.8	3.0
Percentage of families with own children aged <18 years Employment status [†] (percentage of persons aged 16 years)	56.5	60.7	59.5	64.5	45.2
Employed Unemployed	62.7 12.9	62.1 14.4	67.5 5.3	67.5 10.4	65.3 5.0
Percentage of employed persons aged 16 years in a managerial/professional occupation	18.1	18.3	30.6	14.1	28.5
Household income in 1989 (\$) Median Mean	19,758 25,872	20,025 26,602	36,784 46,695	24,156 30,301	31,672 40,646
Per capita income in 1989 (\$)	8,859	8,328	13,638	8,400	16,074
Poverty rate (percentage) Families Persons	26.3 29.5	27.0 30.9	11.6 14.1	22.3 25.3	7.0 9.2
Urban residents (percentage)	87.2	56.0	95.4	91.4	70.9

^{*}Excludes persons of Hispanic origin. The population figures for African Americans in Tables 1 and 2 are different because the population cited in Table 2 includes African Americans of Hispanic origin, while the African American population cited in Table 1 excludes persons of Hispanic origin.

Source: U.S. Bureau of the Census 1993a,c.



[†]These figures do not include several categories of people who were not in the civilian labor force for various reasons, such as students, housewives, retired workers, seasonal workers in an off season who were not looking for work, institutionalized persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

national groups and speak nearly 500 languages and dialects (Chen 1993). They trace their background to areas as diverse as Mongolia to the north, Indonesia and the South Pacific Islands to the south, India to the west, and Japan to the east. Hispanics include individuals who trace their background to the original settlers of large areas in what is now the Southwest United States as well as recent immigrants from any of the 18 Spanish-speaking countries in Latin America. The American Indian and Alaska Native population in the United States is likewise composed of a richly diverse group of indigenous cultures of indigenous cultures, over half of whom do not live on a reservation (U.S. Bureau of the Census 1993c). More than 500 federally recognized tribes and an additional 100 nonfederally recognized tribes are concentrated primarily in 25 reservation states (U.S. Bureau of the Census 1992a). American Indians and Alaska Natives continue to speak more than 150 languages. (For additional information, see U.S. Bureau of the Census reports on Asian Americans and Pacific Islanders [1993a], Hispanics [1993b], and American Indians and Alaska Natives [1993c].) Most African Americans in the United States can trace their ancestry to territories that include the modern states of Benin, Burkina Faso (formerly

Upper Volta), Cameroon, the Congo Republic, Côte d'Ivoire (Ivory Coast), the Democratic Republic of the Congo (formerly Zaire), Gabon, Gambia, Ghana, Guinea, Liberia, Nigeria, Senegal, Sierra Leone, and Togo (Ploski and Williams 1989). The mode of entry for practically all Africans who entered the United States in the seventeenth, eighteenth, and nineteenth centuries (until 1865) was as slaves (see Chapter 4 for further historical discussion). Many recent immigrants came from the Caribbean islands and Sub-Saharan Africa. This report excludes data on the 3.5 million residents of Puerto Rico as well as data on residents of other territories and associated states of the United States; however, many of the issues discussed in this report are relevant to these individuals because they have been influenced by the events taking place in the 50 states.

Over the next 50 years, the population of the four groups is expected to increase dramatically, reaching close to one-half of the country's population by the year 2050 (Table 3), according to estimates from the U.S. Bureau of the Census (1992b). These estimates underscore the need to develop appropriate interventions to avert disturbing tobacco addiction patterns in this large segment of the population.

Table 3. Estimated percentage distribution of the U.S. population, by race/ethnicity and Hispanic origin, 1990–2050

		Non-His	panic		
Year	African American	Asian American/ Pacific Islander	American Indian*	White	Hispanic
1990	11.8	2.8	0.7	75.7	9.0
1995	12.1	3.5	0.7	73.6	10.1
2000	12.3	4.2	0.8	71.6	11.1
2005	12.6	4.9	0.8	69.6	12.2
2010	12.8	5.5	0.8	67.6	13.2
2020	13.3	6.8	0.9	63.9	15.2
2050	15.0	10.1	1.1	52.7	21.1

^{*}Includes Eskimos and Aleuts.

Source: U.S. Bureau of the Census 1992b.



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Effects of Racial/Ethnic Background on Health

Extensive research has been conducted on the relationship between health and race/ethnicity (see, for example, Harwood 1981; Polednak 1989; Braithwaite and Taylor 1992; Young 1994). Published reports of these studies tend to show different rates of illness across racial/ethnic groups. Some of these differences may be explained by variations in each group's beliefs and attitudes, traditional health-related practices, normative behaviors, social conditions, levels of access to high-quality health care, experiences with discrimination and racism, living environments, competing causes of death, and genetic backgrounds. Genetic factors may contribute to certain differences among groups of people; however, culture, degree of acculturation, and socioeconomic factors are probably far more significant determinants of health status in the United States (Freeman 1993; Adler et al. 1994).

Culture is a broad concept (Kroeber and Kluckhohn 1963)—its influence encompasses all aspects of daily life, including beliefs and practices about health and illness as well as norms that dictate behaviors. Most contemporary societies include many different cultures, which may be defined by historical, geographic, economic, social, and political elements (Helman 1985). The United States has always been a nation of immigrants and coexisting cultures.

Acculturation—the process of learning the values, beliefs, norms, and traditions of a new culture (Marín 1992)—allows individuals to make choices and to learn of new worldviews, while keeping their original views (biculturalism) or modifying their initial perspectives to be more consonant with those of the new culture (assimilation). In multicultural societies such as the United States, acculturation occurs among immigrants (as they learn the host culture) as well as among individuals born in the United States (as they learn the culture of immigrants). Despite the significance of acculturation's link with human behavior, few studies have focused on how acculturation might affect the health status and behavior of ethnic groups in the United States. Part of the problem has been the difficulty in designing appropriate measuring instruments (Marín 1992), although recent research has begun to assess the role that acculturation plays in

determining the health status of members of U.S. racial/ethnic groups (Pérez-Stable 1994; Vega and Amaro 1994; Williams and Collins 1995).

Socioeconomic characteristics, which are powerful determinants of health and disease (USDHHS 1985, 1991; Liberatos et al. 1988; HRSA 1991; Williams and Collins 1995), differ markedly among the racial and ethnic groups of the United States (Table 2). Levels of income and education may directly and indirectly affect the health status of individuals (Council on Ethical and Judicial Affairs 1990; Weissman et al. 1991). Income, for example, often is a determinant of access to health care as well as of the quantity and quality of health care available. Persons with low incomes, regardless of race or ethnicity, are more likely to be uninsured (American College of Physicians 1990), to encounter delays in seeking or receiving care or to be denied care (Tallon 1989), to rely on hospital clinics and emergency rooms for health services (NCHS 1985), and to receive substandard care (Burstin et al. 1992). Level of education may influence health beliefs and behaviors, which determine whether and how individuals seek health care, make treatment choices, and comply with treatment suggestions. Because the literature reviewed in this report has often failed to consider the role of socioeconomic factors in the health status of members of racial/ethnic groups, understanding the significance of the results is difficult. Nevertheless, these published reports indicate that access to health care and the type of care received are partly determined by the race and ethnicity of the patient and that members of minority groups are less likely than whites to receive adequate care (e.g., Blendon et al. 1989; CDC 1989; Todd et al. 1993; Williams and Collins 1995).

The information summarized in this report reflects the role of race, ethnicity, and culture in shaping tobacco use among members of the four population groups. Unfortunately, currently available methods do not help delineate the role of acculturation, socioeconomic conditions, and societal problems such as racism, prejudice, and discrimination (e.g., Osborne and Feit 1992; Freeman 1993; Pappas 1994). Nevertheless, efforts were made here to discern the possible role of these variables in explaining tobacco use among racial/ethnic minority group members.



Introduction and Summary

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Chapter Conclusions

Following are the specific conclusions for each chapter in this report.

Chapter 2. Patterns of Tobacco Use Among Four Racial/Ethnic Minority Groups

- In 1978-1995, the prevalence of cigarette smoking declined among African American, Asian American and Pacific Islander, and Hispanic adults. However, among American Indians and Alaska Natives, current smoking prevalence did not change for men from 1983 to 1995 or for women from 1978 to 1995.
- 2. Tobacco use varies within and among racial/ ethnic groups; among adults, American Indians and Alaska Natives have the highest prevalence of tobacco use; African American and Southeast Asian men also have a high prevalence of smoking. Asian American and Hispanic women have the lowest prevalence.
- In all racial/ethnic groups discussed in this report except American Indians and Alaska Natives, men have a higher prevalence of cigarette smoking than women.
- 4. In all racial/ethnic groups except African Americans, men are more likely than women to use smokeless tobacco.
- 5. Cigarette smoking prevalence increased in the 1990s among African American and Hispanic adolescents after several years of substantial decline among adolescents of all four racial/ethnic minority groups. This increase is particularly striking among African American youths, who had the greatest decline of the four groups during the 1970s and 1980s.
- 6. Since 1978, the prevalence of cigarette smoking has remained strikingly high among American Indian and Alaska Native women of reproductive age and has not declined as it has among African American, Asian American and Pacific Islander, and Hispanic women of reproductive age.
- 7. Declines in smoking prevalence were greater among African American, Hispanic, and white men who were high school graduates than they

- were among those with less formal education. Among women in these three groups, education-related declines in cigarette smoking were less pronounced.
- 8. Educational attainment accounts for only some of the differences in smoking behaviors (current smoking, heavy smoking, ever smoking, and smoking cessation) between whites and the racial/ ethnic minority groups discussed in this report. Other biological, social, and cultural factors are likely to further account for these differences.
- Compared with whites who smoke, smokers in each of the four racial/ethnic minority groups smoke fewer cigarettes each day. Among smokers, African Americans, Asian Americans and Pacific Islanders, and Hispanics are more likely than whites to smoke occasionally (less than daily).
- 10. The data in general suggest that acculturation influences smoking patterns in that individuals tend to adopt the smoking behavior of the current broader community; however, the exact effects of acculturation on smoking behavior are difficult to quantify because of limitations on most available measures of this cultural learning process.

Chapter 3. Health Consequences of Tobacco Use Among Four Racial/Ethnic Minority Groups

- Cigarette smoking is a major cause of disease and death in each of the four racial/ethnic groups studied in this report. African Americans currently bear the greatest health burden. Differences in the magnitude of disease risk are directly related to differences in patterns of smoking.
- 2. Although lung cancer incidence and death rates vary widely among the nation's racial/ethnic groups, lung cancer is the leading cause of cancer death for each of the racial/ethnic groups studied in this report. Before 1990, death rates from malignant neoplasms of the respiratory system increased among African American, Hispanic, and American Indian and Alaska Native men and women. From



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1990 through 1995 death rates from respiratory cancers decreased substantially among African American men, leveled off among African American women, decreased slightly among Hispanic men and women, and increased among American Indian and Alaska Native men and women.

- 3. Rates of tobacco-related cancers (other than lung cancer) vary widely among members of racial/ethnic groups, and they are particularly high among African American men.
- 4. The effect of cigarette smoking (as reflected by biomarkers of tobacco exposure) on infant birth weight appears to be the same in African American and white women. As reported in previous Surgeon General's reports, cigarette smoking increases the risk of delivering a low-birth-weight infant.
- 5. No significant racial/ethnic group differences have been consistently demonstrated in the relationship between smoking and infant mortality or sudden infant death syndrome (SIDS); cigarette smoking has been associated with increased risk of SIDS and remains a probable cause of infant mortality.
- 6. Future research is needed and should focus on how tobacco use affects coronary heart disease, stroke, cancer, chronic obstructive pulmonary disease, and other respiratory diseases among members of racial/ethnic groups. Studies also are needed to determine how the health effects of smokeless tobacco use and exposure to environmental tobacco smoke vary across racial/ethnic minority groups.
- Persons of all racial/ethnic backgrounds are vulnerable to becoming addicted to nicotine, and no consistent differences exist in the overall severity of addiction or symptoms of addiction across racial/ethnic groups.
- 8. Levels of serum cotinine (a biomarker of tobacco exposure) are higher in African American smokers than in white smokers for similar levels of daily cigarette consumption. Further research is needed to clarify the relationship between smoking practices and serum cotinine levels in U.S. racial/ethnic groups. Variables such as group-specific patterns of smoking behavior (e.g., number of puffs per cigarette, retention time of tobacco smoke in the lungs), rates of nicotine metabolism, and brand mentholation could be explored.

Chapter 4. Factors That Influence Tobacco Use Among Four Racial/Ethnic Minority Groups

- 1. The close association of tobacco with significant events and rituals in the history of many racial/ethnic communities and the tobacco industry's long history of providing economic support to some racial/ethnic groups—including employment opportunities and contributions to community groups and leaders—may undermine prevention and control efforts.
- The tobacco industry's targeted advertising and promotion of tobacco products among members of these four U.S. racial/ethnic groups may undermine prevention and control efforts and thus lead to serious health consequences.
- 3. The high level of tobacco product advertising in racial/ethnic publications is problematic because the editors and publishers of these publications may omit stories dealing with the damaging effects of tobacco or limit the level of tobacco-use prevention and health promotion information included in their publications.
- 4. Although much of the original research on psychosocial factors that influence tobacco use reflects general processes that may apply to racial/ethnic populations, documenting such generalizability requires further research.
- 5. The initiation of tobacco use and early tobacco use among members of the various racial/ethnic minority groups seem to be related to numerous categories of variables—such as sociodemographic, environmental, historical, behavioral, personal, and psychological—although the predictive power of these categories or of specific risk factors is not known with certainty because of the paucity of research.
- 6. Cigarette smoking among members of the four racial/ethnic groups is associated with depression, psychological stress, and environmental factors such as advertising and promotion and peers who smoke, as is also the case in the general population. The role of these factors in tobacco use among members of these racial/ethnic groups deserves attention by researchers and persons who develop smoking prevention and cessation programs.

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Chapter 5. Tobacco Control and Education Efforts Among Members of Four Racial/ Ethnic Minority Groups

- More research is needed on the effect of culturally appropriate programs to reduce tobacco use among racial/ethnic minority groups. Interventions should be language appropriate; addressing psychosocial characteristics such as depression, stress, and acculturation may increase the acceptance of programs by members of racial/ethnic groups.
- 2. To be culturally appropriate, tobacco control programs must reflect the targeted racial/ethnic group's cultural values, consider the group's psychosocial correlates of tobacco use, and use strategies that are acceptable and credible to members of the group. Culturally competent program staff must be aware and accepting of cultural differences, be able to assess their own cultural values, be conscious of intercultural dynamics when persons of different cultures interact, be aware of a racial/ethnic group's relevant cultural characteristics, and have the skills to adapt to cultural diversity.
- 3. Numerous strategies are needed to control tobacco use among racial/ethnic youths: restricting minors' access to tobacco products, establishing culturally appropriate school-based programs, and designing mass media efforts geared to young people's interests, attitudes, expectations, and norms. Recent provisions of the Synar Amendment, designed to prevent minors' access to tobacco products, and the FDA regulations aimed at reducing the access to and appeal of tobacco products to young people are intended to reduce tobacco use among all youth, including members of racial/ethnic minority groups.

- 4. Members of racial/ethnic groups are less likely than the general population to participate in smoking cessation groups and to receive cessation advice from health care providers. Barriers to ethnic group participation include limited cultural competence of health care providers and a lack of transportation, money, and access to health care.
- 5. Available data indicate that racial/ethnic groups support smoking restrictions, such as increasing cigarette excise taxes, banning cigarette advertisements, restricting access to cigarette vending machines, raising the legal age of purchase, prohibiting sponsorship of events by tobacco companies, and establishing clean indoor air regulations. Additional research is needed to evaluate how best to build on this base of public opinion support to strengthen existing tobacco prevention and control programs within racial/ethnic communities.
- 6. Prevention and cessation efforts in racial/ethnic communities are limited by underdeveloped to-bacco control infrastructures and low levels of resources for research, program development, and program dissemination. Greater resources are needed in racial/ethnic minority communities to build tobacco control infrastructures and to develop initiatives.

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Chapter 1

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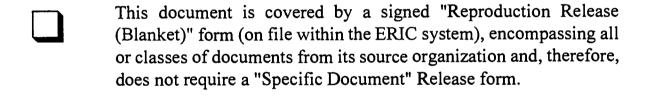
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